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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR Sam L. Woo	ATTORNEY DOCKET NO.	CONFIRMATION NO. 6599
09/836,704		04/16/2001		9584-027-999	
20583	7590	06/26/2003			
PENNIE A		IONDS HE AMERICAS	EXAMINER		
NEW YORK		0362711		RILEY, JEZIA	
				ART UNIT	PAPER NUMBER
		,		1637 DATE MAILED: 06/26/2003	17

Please find below and/or attached an Office communication concerning this application or proceeding.

		-	Application I	No.	pplicant(s)
	Offic	A = 41 O	09/836,704		/00 ET AL.
ı	Unic	Action Summary	Examiner		rt Unit
		_ 	Jezia Riley	14.	
Period 1	<i> The MAIL</i> for Reply	LING DATE of this communi	cation appears on the co	ver sheet with the corr	espondence address
- Extended - If th - If N - Fail - Any	ensions of time man SIX (6) MONTHE period for reply O period for reply within reply received by	O STATUTORY PERIOD FO DATE OF THIS COMMUNIC may be available under the provisions of HS from the mailing date of this commu- y specified above is less than thirty (30) by is specified above, the maximum stat- in the set or extended period for reply we by the Office later than three months after dijustment. See 37 CFR 1.704(b).	of 37 CFR 1.136(a). In no event, huncation.) days, a reply within the statutory lutory period will apply and will exp	owever, may a reply be timely fi minimum of thirty (30) days will ire SIX (6) MONTHS from the o	be considered timely.
1)[Responsi	ve to communication(s) file	d on 10 May 2002		
2a)⊠				~	
3)			b) This action is non-	-final.	
	closed in a	application is in condition faccordance with the practions	e under <i>Ex parte Quayl</i>	formal matters, prose e, 1935 C.D. 11, 453 (cution as to the merits is D.G. 213.
4)🛛	Claim(s) 1	-28 and 53-60 is/are pendir	ng in the application.	•	
	4a) Of the a	above claim(s) is/are	Withdrawn from conside	eration	
5)[🖂	Claim(s) 53	B and 55-60 is/are allowed.	The state of the s	ration.	
		28 and 54 is/are rejected.			
		is/are objected to.	•		·
8)[Claim(s)	are subject to restriction	on and/or election require	ement.	
rppiicatii	on Papers				
ا لــا(9	he specifica	ation is objected to by the E	xaminer.		
10)∟, ⊺	he drawing((s) filed on is/are; a)	☐ accepted or b)☐ objec	ted to by the Examiner	
	Applicant m	ay not request that any object	tion to the drawing(s) be he	ld in abevance Soc 37	CED 4.05(a)
ا ٰ ا⊤ا(11	ne proposed	d drawing correction filed or	n is: a)∐ approvi	ed b) disapproved b	by the Examiner.
	ii approved,	corrected drawings are requir	red in reply to this Office ac	tion.	• • • • • • • • • • • • • • • • • • • •
12)[he oath or d	leclaration is objected to by	the Examiner.		•
		.C. §§ 119 and 120			
13) <i>A</i>	\cknowledgr -	ment is made of a claim for	foreign priority under 35	5 U.S.C. § 119(a)-(d) c	or (f)
a) <u></u>		Some * c)∐ None of:			. (1).
	. Certifie	ed copies of the priority doc	uments have been rece	ived.	
2		ed copies of the priority doc	cuments have been rece	ived in Application No.	
3	opies⊔. apr	s of the certified copies of the plication from the Internation detailed Office action for	ne priority documents ha	ive been received in th	is National Stage
[4]∐ Aci	knowledgme	ent is made of a claim for do	Omestic priority under 26	ples not received.	
a) [☐ The trans	slation of the foreign langua	onesuc phonty under 35	U.S.C. § 119(e) (to a	provisional application).
15)∏ Ac	knowledgm€	ent is made of a claim for de	omestic priority under 3!	In has been received.	- 404
_	<i>'</i>		The state of the s	70.0.0. 99 120 and/0	f 121.
Notice o	f References C	Cited (PTO-892) 's Patent Drawing Review (PTO-9	4) 🔲	Interview Summary (PTO-4 Notice of Informal Patent Ap	13) Paper No(s).

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DETAILED ACTION

Response to Remarks

1. Applicants' arguments and amendments, filed on 5/19/03, have been approved and entered. They have been fully considered but they are not deemed to be persuasive. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either newly applied or reiterated. They constitute the complete set presently being applied to the instant application.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-28 and 54 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 and 54 are vague and indefinite because in formula III if R3 is the of formula as shown in line 30 and X is oxygen then the bond linking R3 in formula III will be and O-O bond which is unstable.

The amendment to the claims do not overcome this rejection because for example when X is O and R3 is the formula in line 30, an O-O type bond will still be formed.

The formation of an O-O type bond is viewed in organic chemistry as being a very weak bond. They undergo homolysis readily when heated. The resulted products are two radicals called alkoxy radicals. Almost all radicals are short-

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lived, highly reactive species. Because radicals are highly reactive they are capable of randomly damaging all components of a reaction mixture.

Thus if one uses said mobility modified sequence specific nucleobase polymer for hybridization assays which requires to be carried at temperature above room temperatures, one will not find useful to apply a mobility modified sequence specific nucleobase polymer comprising a peroxide bond (O-O) for such assays.

Therefore the scope of the invention sought to be patented cannot be determined from the language of the claims with a reasonable degree of certainty, a rejection of the claims under 35 U.S.C. 112, second paragraph was appropriate. The specification shall conclude with one or more claims particularly pointing out and **distinctly** claiming the subject matter which the applicant regards as his invention.

3. Claims 53 and 55-60 are allowed.

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jezia Riley whose telephone number is 703-305-6855. The examiner can normally be reached on 9:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 703-308-1119. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3014 for regular communications and 703-308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

/ JEZIA RILEY PRIMARY EXAMINER

June 25, 2003